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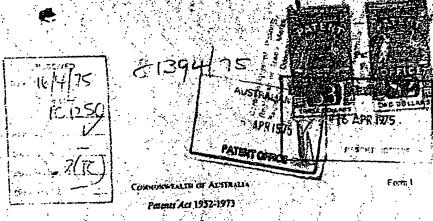
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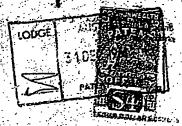
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# DECLARATION IN SUPPORT OF AN APPLICATION FOR A PATENT OR PATENT OF ADDITION In support of the Application made by Addit Allegan A

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ATHOL. AlleMAS PACE 16	R
	d. MORNING TON- 3931 VICTORIA
lo solemnly and sincerely declare as foll	OWE
1. I am the applicant for the pate	
(or, in the ease of an upp	lication by a tonly corporate)
1. I am authorized by	
the applicant for the Patits behalf.	ent ent of addition to make this declaration on
2. I am the actual inventor of the	invention
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of 111.113 BET	EURA Bill Rand MORNING SEN
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#### COMMONWEALTH OF AUSTRALIA

PATENTS ACT 1952-1969

## DECLARATION IN SUPPORT OF CONVENTION OR NON-CONVENTION APPLICATION FOR A PATENT OF ADDITION

(The declaration shall be made by the applicant, or, if the applicant is a body corporate, by a person authorized by the body corporate to make the declaration on its behalf).

in support of the Application made for a patent some for an invention nuttied "EASY-LAWN" filed on 16th April, 1975 under No. PC 1250/75

ATHOL THOMAS PROCTOR, of 111-113 Belevia Hill Road, Mornington, Victoria 3931

do solemnly and sincerely declare as follows:

2 1 KAY 1975

1. (a) 1 am the applicant for the patent skindstops: PATENT CHICK

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2.(a) I am the actual inventor of the invention or (b)

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(Paragraphs 3 and 4 apply only to Convention applications).

3. The basic application as defined by Section 141 of the Act was made in on the on the on the by on the by.

4. The basic application effected to in paragraph 3 of this Declaration were the first application made in a Convention country in respect of the invention the subject of the application.

Declared at a Melbourne this

19th day of May 1975

Insert tale of investion

Intert full name(1) and address(et) of declaract(1).

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State manines in which applicant(a) derive title from actual inventor(s).

Intert country and date of filing of each application on which priority is based.

Insert full name of applicant in each basic application.

Signature(s) of declarant(s).

(No attestation or other algorithms is required).

Note: Initial all Alterations

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The Commissioner of Patents

## COMMONWEALTH of AUSTRALIA PATENTS ACT 1952-1949

COMPLETE SPECIFICATION

(Original)

FOR OFFICE USE:

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Int. Class

Application Number: Lodged:

Complete Specification Lodged: Accepted: Published:

Priority:

Radicted Art:

COMMONWEALTH

2 1 MAY 1975

PATENT OFFICE

. Name of Applicant:

ATHOL THOMAS PROCTOR

Adiress of Applicant:

111-113 Releura Hill Road, Mornington, Victoria 3931

Actual Inventor(s):

ATHOL THOMAS PROCTOR

Address for Service:

DAVIES & COLLISON, Potent Attorneys,

Cromwell Building, 374 bourks Street, Melbourne, 3000

Complete Specification for the invention entitled: "SEBD BEARING MAT"

The following statement is a full description of this invention, including the best method of performing it known to

This invention relates to a seed bearing mat particularly, but not exclusively, for use in preparing lawns.

provided a seed bearing mat comprising a layer of water permeable material and seeds bonded within or to said layer. It is preferred that water permeable material comprises straw bonded into a compressed layer by a bonding agent and that a bonding agent keeps the seeds bonded to the layer. A mat of this construction is relatively physically rebust and is therefore better able to withstand the damaging affects of wind and rein.

The invention also provides a method of making a seed bearing mat comprising forming a layer of water permeable material and bonding seeds within or onto said layer.

The invention further provides a meriod of sowing a crop comprising laying a layer of water permeable, porous material having speds achered thereto upon the ground and applying water to the layer so that the layer becomes saturated with water and which, thereafter, tends to remain fixed in position relative to the ground.

The invention will now be described with reference to the accompanying drawing which shows a cross section through a partion of a met constructed in accordance with the invention:

of flexible porous material such as compressed straw held in a compressed state by a bonding agent such as rubber latex. Straw is the preferred material but it is by no means

- 2 -

essential since other organic or inorganic material can be used. Por instance, coconut fibres, peat moss, wood shavings or other organic particulate or fibrous paterial could be employed. In use of the mat, the layer 2 becomes saturated with water and tends to keep the pat in a fixed position relative to the ground. Further, where the layer 2 is made from organic fibrous or particulate material it serves as a layer of mulch which will gradually decompose. Bonded to the layer 2 is a covering layer 4 made from material which is of finer texture than that of the layer 2. For instance, coconut fibre dust or sawdust bonded together by latex would be most suitable. Seeds (not shown in the drawing) are bonded between the layers 2 and 4. The layers 2 and 4 need not be made from organic materials, for instance, particulate foamed plastic material or foam rubber would be suitable. It is preferred that the bonding agent used for binding the layers 2 and 4 together and for bonding seeds between the layers comprises latex since this tends to gradually break down when wet. The mat is preferably made so that the layer 2 is approximately 5 to 10 mm thick and the layer 4 2 or 3 mm thick. It is preferred that the mat be made in long lengths say I metre wide so that it can be handled and laid much the same way as carpet.

One method of making the mat will now be described. Pirst, straw is spread into trays say 1 metre wide and of convenient length say up to about 10 metres. The straw is initially uncompressed and is laid to a depth of approximately 5 cm. The layer of straw is then sprayed with contact adhesive such as a solution of 70% latex and 30% water.

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The adhesive is sprayed at the rate of about 160 cc per square metre. The layer of straw is then inverted and the other side is sprayed with latex at the same concentration rate. The layer of straw having contact adhesive applied thereto is fed through the mip of a pair of rollers so as to form a relatively compact porous layer.

Next, the compact layer of straw is again sprayed with later, at the same rate, and seeds are then distributed onto the layer. Where lawn seed is required, a typical seed distribution rate would be approximately 700 grams per square metre. At this stage, it is preferable to distribute a fungicide to prevent fungus attacking the seed. A suitable fungicide is sulphur dust. Further, a plant hormone such as A Naphthaleneacetic acid can be sprayed over the seeds. The acid may be in water solution at the rate of 0.001%. This hormone additive has the beneficial effect of promoting the elongation of the roots of the seeds after germination. Urea in liquid form, can also be applied at this stage. The urea tends to help break down the covering layer 4 when the mat is wet (where the layer 4 is made from organic material).

Next, the material to form the covering 4 is initially at a depth of 5 mm applied to the layer. The preferred material is coconut fibre dust since it is organic in nature, inexpensive, and of suitably fine texture. The mat is again fed through the nip of a pair of rollers so as to compress the covering layer and firmly bond the seeds between the layers. A composting agent such as "LIVING SOIL" can be applied to the mat if desired. The composing agent will facilitate

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breakdown of the layer of straw after germination of the

The completed mat can be rolled and stored in readiness for use. The mat will last for as long as the life of the seeds, and in this respect, it is preferred to keep the mats in a cool store at 10°C to prolong the life of the seeds.

In use the mat of the invention is laid upon prepared ground which has been watered. After laying of the mat it is heavily watered so that the layer 2 becomes saturated, therefore tends to remain in position despite the slope of the land. The mat has sufficient physical strength to withstand the effects of heavy hose watering. There is little possibility of seeds being washed away or taken by pests since they are bonded to the layer 2 and, in the preferred form; covered by the layer 4. The definite bonding of the seeds to the mat ensures that seeds cannot move prior to germinization and thus the crop will grow in a uniform manner.

Many modifications will be apparent to those skilled in the art without departing from the spirit and scope of the invention.

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The claims defining the invention are as follows:-

- A seed bearing mat comprising a layer of water absorbant material and seeds bonded within or to said layer.
- 2. A mat as claimed in claim 1 wherein said layer comprises fibrous material bonded into a porous layer by a bonding agent.
- 3. A mat as claimed in claim 2 wherein said seeds are bonded within or to said fibrous material by said bonding agent.
- 4. A mit as claimed in claim 2 or 3 wherein the fibrous material comprises straw and the bonding agent comprises latex.
- 5. A mat as claimed in claim 4 wherein the seeds are bonded to the surface of the layer of straw and are covered by a further layer which is less porous than the straw layer and serves as a top cover for the mat.
- 6. A mat as claimed in claim 5 wherein the further layer comprises coconut fibre or coconut fibre dust bonded together into a layer and to the layer of straw by latex.
- 7. A mat as claimed in anyone of the preceding claims containing any one or combination of the following additives: fungicide, fertilizer, urea, hormone additive,

- 6. A must as claimed in claim 7 wherein the lungicide comprises sulphur.
- 9. A mat as claimed in claim 7 or 8 wherein the hermone edditive comprises a Maphthaleneacetic acid.
- 10. A method of making a seed bearing sat comprising forming a layer of water absorbent material and bonding seeds within or onto said layer.
- 11. A method as claimed in claim in wherein the eater absorbent material comprises straw which is sprayed with latex and compressed to form seid layer.
- 12. A method as claimed in claim 11 wherein further latex is applied to the layer of compressed atraw and seeds are distributed over the layer to bond them onto the layer.
- 13. A method as claimed in claim 12 wherein a layer of fibrous or particulate material is applied to the layer of straw to form a covering over the speds.
- 14. A method as claimed in any one of claims 10 to 13 including the step of adding one or more of the Following to the mat: usea, fungicide; fertilizer, horselve addition and composting agent.

- the steps of forming a first layer of fibrous or particulate material, applying contact adhesive to the material, compressing the material to form a material, compressing the material to form; a material, applying steeds to the further contact adhesive to the mat, applying steeds to the surface of the mat, forming a second layer on maid sat of fibrous or particulate material of finer texture they said first mentioned fibrous or particulate material and compressing the second layer to form a covering layer for the seeds.
- 16. A method as risined in claim 15 wherein the first layer comprises straw lightedly approximately 3° thick and the second layer comprises commut fibres or executifithe dust.
- 17. A method am claimed in claims 15 or 16 wherein the contact adhesive comprises water based intex applies at the rate of approximately 160 cc per square setre for both applications.
- the ground a layer of water absorbent, porces material having seeds adhered thereto and applying water to the lower so that the layer becomes saturated with water and which, thereafter, tends to remain fixed in position relative to the ground.
- 19. A method of making a seed hearing mat substantially as herelabelors described with reference

to the accompanying drawings.

- 20. A seed bearing mat substantially as hereinbefore described with reference to the accompany drawings.
- 21. The steps, features, compositions and compounds referred to or indicated in the specification and/or claims and/or drawings of this application, individually or collectively; and any and all combinations of any two or more of said steps or features;

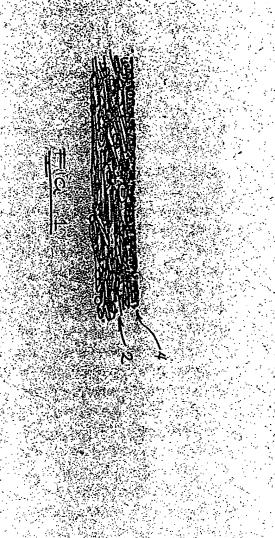
Dated this 19th day of May. 1975.

ATHOL THOMAS PROCTOR

By his Patent Attorneys

DAVIES & COLLISON





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